	STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING  FORM 3  AMENDED REPORT							<b>Y</b>						
APPLICATION FOR PERMIT TO DRILL							1. WELL NAME and NUMBER Ute Tribal 21-14NN							
2. TYPE OI		L NEW WELL (📵)	REENTER P&A	A WELL DE	EPEN WEL	3. FIELD OR WILDCAT ANTELOPE CREEK								
4. TYPE OI						5. UNIT or COMMUNITIZATION AGREEMENT NAME					NT NAME			
6. NAME O	F OPERATOR	Oil We	ell Coalbe	d Methane Well: No	D				7. OPER	ATOR PHON	NTELOPE CRE	EK		
8. ADDRES	S OF OPERATO	R	PETROGLYPH OP	ERATING CO					9. OPER	ATOR E-MAI	208 685-767 IL	4		
	AL LEASE NUME	960 Bro		500, Bosie, ID, 837							owest@pgei.co	om		
	, INDIAN, OR ST			400	INDIAN (I	No.	FE	EE 💮	FEDERA	ACTIVE STATE OF		ТАТЕ 🎑	FEE 💮	
13. NAME	OF SURFACE OV		= 'fee')						14. SUR	FACE OWNE	R PHONE (if	box 12 =	· 'fee')	
15. ADDRE	SS OF SURFACE	OWNER (if box	12 = 'fee')						16. SUR	ACE OWNE	R E-MAIL (if	box 12 =	= 'fee')	
17 INDIA	N ALLOTTEE OR	TDIRE NAME		18. INTEND TO C		LE PRODUC	TION FR	ОМ	19. SLAI	IT .				
	= 'INDIAN')	dian Tribe		YES (Subm		ıgling Applica	tion) N	o 📵	VERTICA	L DIRI	ECTIONAL (	HORI:	ZONTAL (	
20. LOCA	TION OF WELL		FOO	OTAGES	Q	TR-QTR	SEC	CTION	точ	VNSHIP	RANGE		MERIDIAN	
LOCATIO	N AT SURFACE		673 FSL	2094 FWL		SESW		21	5	.0 S	3.0 W		U	
Top of Up	permost Produc	ing Zone	10 FSL	1390 FWL		SESW		21	5	.0 S	3.0 W		U	
At Total D	Pepth		10 FSL	1390 FWL		SESW		21	5	.0 S	3.0 W		U	
21. COUNT		CHESNE		22. DISTANCE TO	2. DISTANCE TO NEAREST LEASE LINE (Feet) 23. NUMBER OF			BER OF ACE	ACRES IN DRILLING UNIT					
					DISTANCE TO NEAREST WELL IN SAME POOL plied For Drilling or Completed)  1914  26. PROPOSED DEPTH MD: 6190 TVD: 6190				6190					
27. ELEVA	TION - GROUND	<b>LEVEL</b> 5353		28. BOND NUMBER BO4556			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342							
		3333		Hole, Casin			formati	ion			45 0542			
String	Hole Size	Casing Size	e Length	Weight	Grade	& Thread		Max Mud	Wt.	Cement	Sacks	Yield	Weight	
Cond	18	14	0 - 40	5.0	U	nknown		10.0	)	Class G	25	1.17	15.8	
Surf	12.25	8.625	0 - 480	24.0		55 ST&C		15.8		Class G	220	1.17	15.8	
Prod	8.75	5.5	0 - 6190	15.5	J-	·55 LT&C		10.0	)	Class G	516	1.91	12.5	
										Class G	338	1.46	13.4	
		•			ATTACI	HMENTS								
	VERIFY THE	FOLLOWING	ARE ATTACHE	D IN ACCORD	ANCE W	ITH THE U	ITAH OI	IL AND G	AS CON	ISERVATIO	ON GENERA	AL RULE	s	
<b>✓</b> WE	LL PLAT OR MAI	P PREPARED BY	LICENSED SURV	/EYOR OR ENGIN	EER	COMPLETE DRILLING PLAN								
AFF:	IDAVIT OF STAT	US OF SURFACE	OWNER AGREE	MENT (IF FEE SU	JRFACE)	FOR	M 5. IF (	OPERATOR	R IS OTH	ER THAN TH	IE LEASE OW	NER		
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY TOPOGRAPHICAL MAP														
NAME Ed Trotter TITLE Agent				-		PHONE	435 789-	4120						
SIGNATURE DATE 05/3				1/2011			EMAIL 6	edtrotter@	easilink.com	l				
API NUMBER ASSIGNED APPROVAL 43013507970000				-			£	*002	EJÜL	8				
								Permit M	anager					

# <u>CONFIDENTIAL</u> EIGHT POINT PLAN

# UTE TRIBAL 21-14NN SW/SE, SEC. 21, T5S, R3W DUCHESNE COUNTY, UTAH

# 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Trona	2747	3637
Mahogany Shale	2896	3491
"B" Marker	3996	2410
"X" Marker	4473	1941
Douglas Creek	4618	1798
"B" Limestone	4996	1427
B/Castle Peak Limestone	5561	871
BSCARB	5988	452
Total Depth	6190	
Anticipated Maximum BHP	1900	

# 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<b>Substance</b>	<b>Formation</b>	<b>Depth</b>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4618	1798
Oil/Gas	B/Castle Peak	5561	871

Other mineral zones N/A

# 3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

## 4. CASING PROGRAM:

Hole	Casing	Top – MD	Bottom – MD	Weight lb/ft	Grade	Thread
18"	14"	sfc	40'	steel	cond	none
12 1/4	8.5/8"	sfc	480'	24.0	J-55	STC
8 3/4"	5 1/2"	sfc	6190'	15.5	J-55	LTC

Casing Stre	ngths:		Collapse	Burst	Tensile	
8 5/8"	24.0 lb.	J-55	STC	1,370 psi	2,950 psi	263,000 lb
5 1/2"	15.5 lb.	J-55	LTC	4,040 psi	4,810 psi	239,000 lb

All casing will be new or inspected.

# <u>CONFIDENTIAL</u> EIGHT POINT PLAN

# UTE TRIBAL 21-14NN SW/SE, SEC. 21, T5S, R3W DUCHESNE COUNTY, UTAH

### 5. MUD PROGRAM

**INTERVAL** MUD TYPE Air/Aerated Water

480' – TD Water with DAP or DAP alternative

Gel/polyacrylamide plolymer w/5-10% LCM, LSND as conditions

warrant

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

### 6. CEMENT PROGRAM:

### 20" Conductor:

Cement to surface with construction cement.

# 8 5/8" Casing: sfc - 500'

**Lead/Tail Slurry: 0' - 500**': 220 sks (257 cu ft) Class G cement + 0.25 lblsk

Cello Flake + 2% CaCl<sub>2</sub>. Slurry wt: 15.8 ppg, Slurry yield: 1.17 ft<sup>3</sup>/sk,

Slurry volume: 12-1/4" hole + 30% excess. (Cement will be circulated to surface).

### 5 1/2" Casing: sfc - 6190'

**Lead Slurry: sfc - 4000':** 516 sks (986 cu ft) EXPANDACEM System (Class "G" + additives) + 1 lb/sx Granulite TR <sup>1</sup>/<sub>4</sub> (Lost Circulation Material) (12.5 PPG±, 1.91 ft<sup>3</sup>/sk) hole + 30% excess.

### Tail Slurry:

**4000' - 6190':** 338 sx (493 cu ft) EXPANDACEM System (Class "G" + additives) + 1 lb/sx Granulite TR <sup>1</sup>/<sub>4</sub> (Lost Circulation Material (13.4 ppg±, 1.46ft<sup>3</sup>/sk) hole + 30% excess. Cement will be circulated to surface.

# 7. VARIANCE REQUESTS:

- A. Petroglyph Operating Company, Inc. requests a variance to regulations requiring a straight run blooie line during drilling of surface hole.
- B. Petroglyph Operating Company, Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line during drilling of surface hole.

**RECEIVED:** Jun. 07, 2011

# <u>CONFIDENTIAL</u> EIGHT POINT PLAN

# UTE TRIBAL 21-14NN SW/SE, SEC. 21, T5S, R3W DUCHESNE COUNTY, UTAH

- C. Petroglyph Operating Company, Inc. requests a variance to regulations requiring 100' of blooie line discharge from the well head during drilling of surface hole.
- D. Petroglyph Operating Company, Inc. requests a variance to regulations for compressors to be 100' from well head during drilling of surface hole.

# 8. EVALUATION PROGRAM:

Logs: Platform Express TD to base of surface casing

(DLL, MSFL, CNG, CDL, GR)

Cores: None anticipated DST: None Programmed

Completion: To be submitted at a later date.

## 9. ABNORMAL CONDITIONS:

None anticipated.

# 10. STANDARD REQUIRED EQUIPMENT

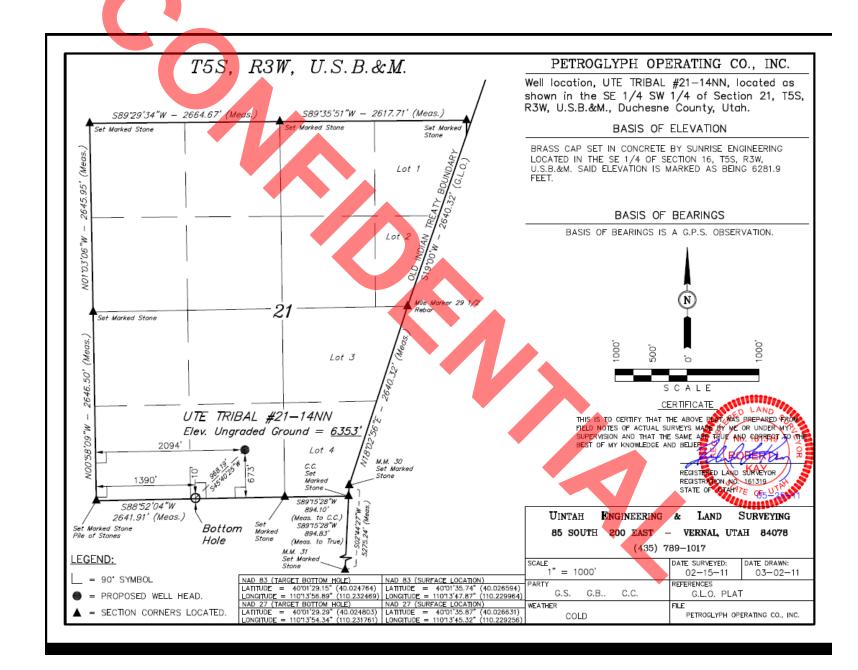
None Required

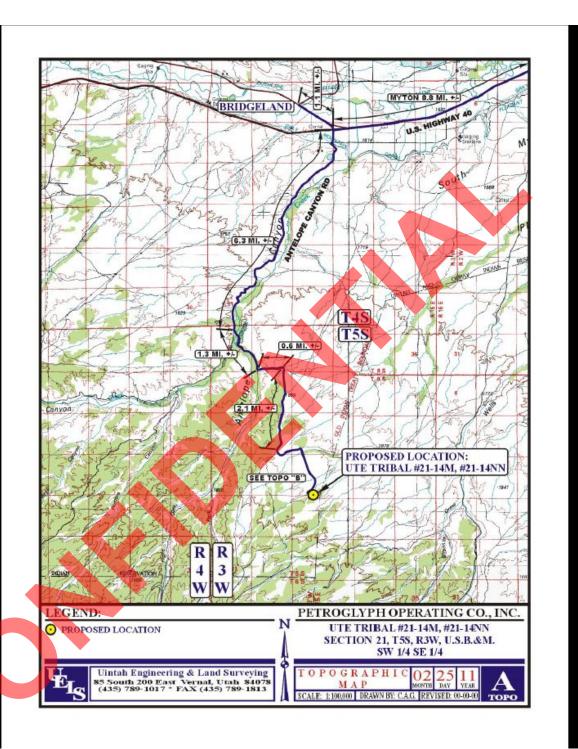
# 11. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

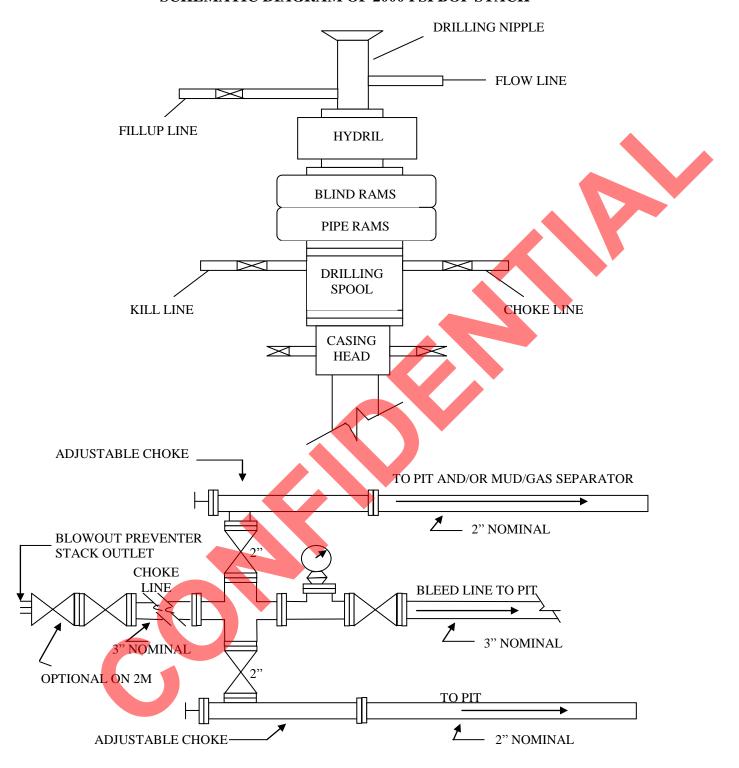
**RECEIVED:** Jun. 07, 2011





API Well Number: 43013507970000 Company: Petroglyph Operating Co. Inc. Petroglyph Operating Co. Inc. Project: Duchesne County, UT NAD83 Site: UTE Tribal 21-14NN Well: UT 21-14NN Scientific Drilling Wellbore: Wellbore #1 Rocky Mountain Operations Azimuths to True North Well Details: UT 21-14NN Magnetic North: 11.40° TVD Reference: WELL @ 6353.00ft (Original Well Elev) Ground Level: 0.00 Magnetic Field +N/-S +E/-W Northing Easting Latittude Longitude Strength: 52248.5snT 0.00 0.00 7180935.64 1996049.78 40° 1' 35.740 N 110° 13' 47.870 W Dip Angle: 65.75° Date: 4/7/2011 Model: IGRF2010 -1000 -500 -100 500 South(-)/North(+) (200 ft/in) 1000 1000 -300 1500 2000 T 21-14NN/Plan #1 2000 True Vertical Depth (1000 ft/in) -500 2500 3000 3000 -UT 21-14NN Target 3500 -200 -700 -600 -500 -400 -300 -100 West(-)/East(+) (200 ft/in) 4000 Plan: Plan #1 15:23, April 08 2011 Created By: Janie Cooke 4500 OJECT DETAILS: Duchesne County, UT NAD83 5000 Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Utah Central Zone 5000 System Datum: Mean Sea Level 5500 TD at 6190.27 UT 21-14NN/Plan #1 6000 SECTION DETAILS +N/-S +E/-W MD VSect 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 UT 21-14NN Target 6500 10.59 226.46 -53.76 -56.57 0.00 967.93 UT 21-14NN Target **4**6190.27 10.59 226.46 6103.00 -666.77 -701.64 0.00 7000 -1000 2000 500 1000 1500 Vertical Section at 226.46° (1000 ft/in) RECEIVED: Jun. 07, 2011

## SCHEMATIC DIAGRAM OF 2000 PSI BOP STACK



PETROGLYPH OPERATING CO., INC. P.O. BOX 607 ROOSEVELT, UTAH 84066

May 23, 2011

Ms. Diana Mason State of Utah Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 21-14NN: 673' FSL & 2094' FWL, SE/SW (Surface)

10' FSL & 1390' FWL, SE/SW (Bottom Hole)

Sec. 21, T5S, R3W, U.S.B.&M.,

Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on May 23, 2011, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 21-14NN is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter, Agent P.O. Box 1910 Vernal, UT 84078 Phone: (435)789-4120

Fax: (435)789-1420

E-mail: edtrotter@easilink.com

**RECEIVED: Jun. 07, 2011** 

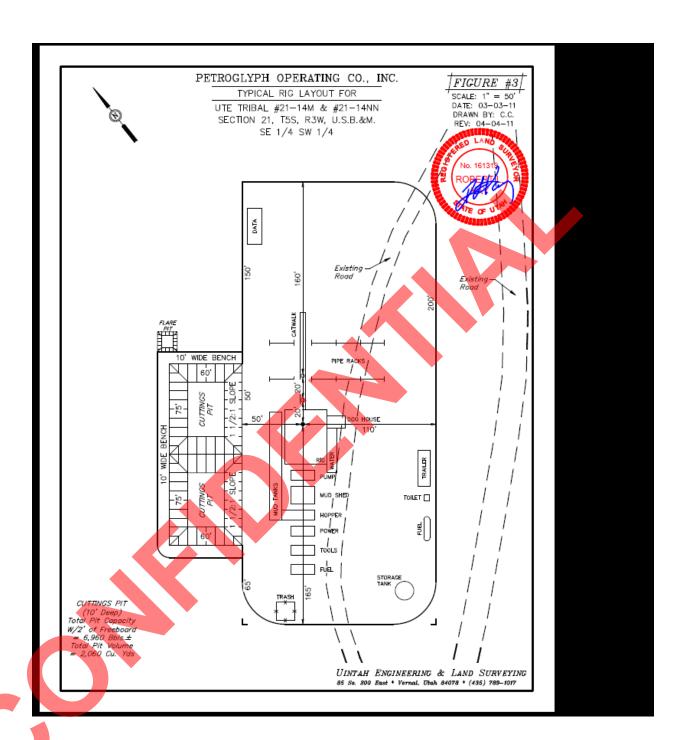
### Certification

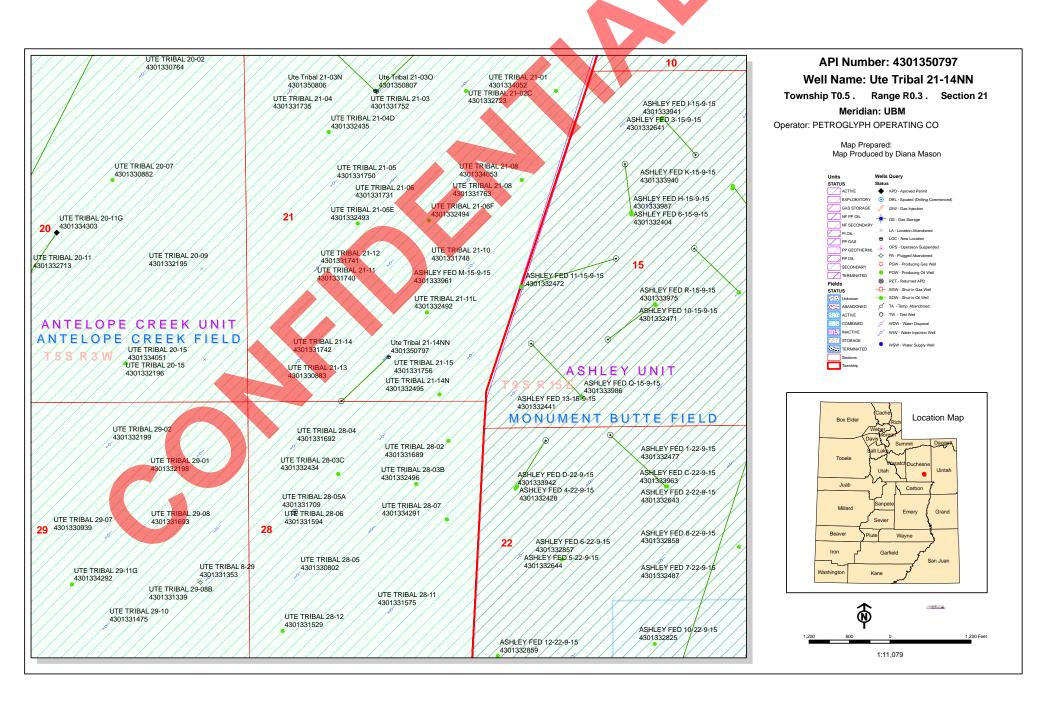
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the UTE TRIBAL 21-14NN Well, located in the SE/SW of Section 21, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3516; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #BO 4556.

Date

Ed Trotter, as Agent for Petroglyph Operating Co., Inc.





# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 5/31/2011 **API NO. ASSIGNED:** 43013507970000

WELL NAME: Ute Tribal 21-14NN

**OPERATOR:** PETROGLYPH OPERATING CO (N3800) **PHONE NUMBER:** 435 789-4120

**CONTACT:** Ed Trotter

PROPOSED LOCATION: SESW 21 050S 030W Permit Tech Review:

> **SURFACE:** 0673 FSL 2094 FWL **Engineering Review:**

**BOTTOM:** 0010 FSL 1390 FWL **Geology Review:** 

**COUNTY: DUCHESNE** 

**LATITUDE:** 40.02662 LONGITUDE: -110.22927 NORTHINGS: 4430786.00 UTM SURF EASTINGS: 565766.00

FIELD NAME: ANTELOPE CREEK

LEASE TYPE: 2 - Indian

**LEASE NUMBER:** 14-20-H62-3516 PROPOSED PRODUCING FORMATION(S): CASTLE PEAK

SURFACE OWNER: 2 - Indian **COALBED METHANE: NO** 

#### **RECEIVED AND/OR REVIEWED:**

PLAT

Bond: INDIAN - BO4556

**Potash** 

Oil Shale 190-5

**Oil Shale 190-3** 

Oil Shale 190-13

Water Permit: 43-8342

RDCC Review:

**Fee Surface Agreement** 

Intent to Commingle

**Commingling Approved** 

**LOCATION AND SITING:** 

R649-2-3.

Unit: ANTELOPE CREEK

R649-3-2. General

R649-3-3. Exception

**Drilling Unit** 

Board Cause No: Cause 214-2

Effective Date: 6/9/2000

Siting: Suspends General Siting

**✓** R649-3-11. Directional Drill

Presite Completed Comments: IRR SEC:

4 - Federal Approval - dmason 15 - <mark>Directional</mark> - dmason Stipulations:

API Well No: 43013507970000



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

# **Permit To Drill**

\*\*\*\*\*\*

Well Name: Ute Tribal 21-14NN API Well Number: 43013507970000 Lease Number: 14-20-H62-3516

**Surface Owner:** INDIAN **Approval Date:** 6/7/2011

### **Issued to:**

PETROGLYPH OPERATING CO, 960 Broadway Ave, Ste 500, Bosie, ID 83703

### **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 214-2. The expected producing formation or pool is the CASTLE PEAK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

 Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available) OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

### **Reporting Requirements:**

API Well No: 43013507970000

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

For John Rogers Associate Director, Oil & Gas

# HEUEIVEL

' Form 3160-3 (August 2007)

FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010

## **UNITED STATES**

May 25 2011 Expire LM VERNAL, UTAH
5. Lease Serial No. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

14-20-H62-3516

BOILE TO OF EATT	D IVII II VI TODIVIDI VI	<u> </u>	14-20-1102-33		
APPLICATION FOR PERMI	TTO DDILL OD DEENT	6.	,		
AFFLICATION FOR FERMI	11 TO DRILL OR REPORT	LK	UTE INDIA	NIKIBE	
la. Type of Work: X DRILL [	REENCONFIDENTIAL	7.	14-20-Н62-46	650	
b. Type of Well: X Oil Well Gas Well Other	Single Zone X Mu	1	UTE TRIBA		
. Name of Operator		9.	API Well No.		
PETROGLYPH OPERATING CO., I	INC.		43-013-507	91	
a. Address P.O. BOX 1910 VERNAL, UT 84078	3b. Phone No. (Include area code) (435)789-4120	10.	10. Field and Pool, or Exploratory  ANTELOPE CREEK		
At surface 673' FSL, 2094' FWL, SE/SW Bottom Hole: 10' FSL, 1390' FWL, SE/SW At proposed prod. Zone	V, SEC. 21, T5S, R3W	MATERIAL 11.	SEC. 21, T5 U.S.B.&M.	·	
4. Distance in miles and direction from nearest town or post o 21.1 MILES SOUTHWEST OF MY	ffice*	12.	County or Parish DUCHESNE	13. State UTAH	
5. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any)	16. No. of Acres in lease 533.33	17. Spacing	Unit dedicated to this we		
8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  See Topo  Map "C"	19. Proposed Depth 6190' TMD 6103' TVD	20. BLM/BIA Bond No. on file  BO 4556			
1. Elevations (Show whether DF, KDB, RT, GL, etc.) 6353.3 FEET GRADED GROUND	22. Approximate date work will start* UPON APPROVAL	23.	23. Estimated duration 10 DAYS		
The following, completed in accordance with the requirem	24. Attachments	chall be offeebar	d to this form:		
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Services.  Signature  Latin Lotter	(see Item 20 a st System Lands, the 5. Operator certification	above). ation.	on and/or plans as may b	pe required	
Title					
Approved by (Signature)	Name (Printed/Typed)		Date		
In Bound	Jerry Kencz	zka	OC.	T 0 4 2011	
Title Assistant Field Manager Lands & Mineral Resources	Office VERNA	AL FIELD C	OFFICE		
pplication approval does not warrant or certify that the applica onduct operations thereon.  Conditions of Approval, if any, are attached.	nt holds legal or equitable title to those right		lease which would enti-	tle the applicant to	
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, nited States any false, fictitious or fraudulent statements or rep	make it a crime for any person the win the	Wilfilly to a	make to any department	or agency of the	

\*(Contiued on page 2)

OCT 2 1 2011



# UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

**VERNAL, UT 84078** 

(435) 781-4400



### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Petroglyph Operating Co., Inc.	Location:	SESW, Sec. 21 T5S R3W USM
Well No:	Ute Tribal 21-14NN	Lease No:	14-20-H62-3516
API No:	43-013-50797	Agreement:	14-20-H62-4650

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER: (435) 781-3420** 

# A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

### **NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut vn opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

# SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

### Additional Stipulations:

- 1) All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- 2) The conditions as set forth by those owners and/or agencies.

### General Conditions of Approval:

- A <u>30'</u> foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

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# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

### SITE SPECIFIC DOWNHOLE COAs:

- Production casing cement shall be brought up and into the surface.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 75 feet.
- All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of

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each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
   Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - o Operator name, address, and telephone number.
  - Well name and number.
  - o Well location (1/4/4, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

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performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.